AMENDMENTS TO THE CLAIMS

1. (Original) An integrated circuit (IC) having programmable interconnections, comprising:

a first plurality of regions, each region having a programmable circuit with a programmable function; and

a second plurality of column-like areas of the IC, wherein each column-like area of the second plurality extends from one edge of the IC to an opposing edge of the IC, and wherein each column-like area of the second plurality comprises predetermined regions of the first plurality, wherein the predetermined regions in a column-like area substantially fill the column-like area and wherein each of the predetermined regions in the column-like area comprises programmable circuits substantially identical to programmable circuits in at least two other predetermined regions in the column-like area.

- 2. (Previously Presented) The integrated circuit of claim 1 wherein every predetermined region in the predetermined regions in the column-like area has a circuit of only one circuit type, the circuit type selected from a group consisting of Configurable Logic Block (CLBs), Multi-Giga Bit Transceivers (MGTs), Block Random Access Memories (BRAMs), Digital Signal Processor (DSP) circuits, Multipliers, and Input/Output Blocks (IOBs).
- 3. (Original) The integrated circuit of claim 1 wherein a column-like area of the second plurality has predetermined regions comprising Multi-Giga Bit Transceiver (MGT) circuits.
- 4. (Previously Presented) The integrated circuit of claim 1 further comprising a heterogeneous column-like area of the IC, the heterogeneous column-like area having regions with programmable circuits that are of different circuit types.

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5. (Original) A die having an integrated circuit, comprising:

a first set of regions, each region in the first set having an Input/Output circuit;

a second set of regions, each region in the second set having a circuit with a programmable logic function;

a third set of columns, wherein a top of each column of the third set is positioned at a top side of the die and a bottom of each column of the third set is positioned at a bottom side of the die;

a first column of the third set consisting essentially of regions from the first set;

a second column of the third set consisting essentially of regions from the second set, wherein the second column is interposed between the first column and a nearest side edge of the die.

- 6. (Previously Presented) The die of claim 5 wherein an Input/Output circuit comprises a Multi-Giga Bit Transceiver or an input/output block or a combination thereof.
- 7. (Original) The die of claim 5 further comprising a third column of the third set positioned at a center line of the die, the third set comprising assorted tiles.
- 8. (Withdrawn) An integrated circuit disposed on a semiconductor die, wherein the integrated circuit comprises a plurality of columns, each of the columns is nearly completely occupied by a plurality of tiles, wherein substantially all of the tiles of each of the columns have an identical width, wherein a width of one of the columns differs from a width of another of the columns, and wherein there are input/output block tiles disposed in at least two of the columns.
- 9. (Withdrawn) The integrated circuit of Claim 8, wherein the semiconductor die has a first side, a second side parallel to the first side, a third side, and a fourth side parallel to the third side, and wherein each column of the plurality of columns extends from the first side to the second side.

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- 10. (Withdrawn) The integrated circuit of Claim 8, wherein the semiconductor die has a first side, a second side parallel to the first side, a third side, and a fourth side parallel to the third side, and wherein one of the columns is a column of configurable logic block tiles, the column of configurable logic block tiles extending from the first side to the second side such that a first configurable logic block tile is disposed adjacent the first side and such that a second configurable logic block tile is disposed adjacent the second side.
- 11. (Withdrawn) The integrated circuit of Claim 10, wherein all the configurable logic block tiles of the column of configurable logic block tiles are identical tiles.
- 12. (Withdrawn) The integrated circuit of Claim 10, wherein there is no input/output block tile disposed between the column of configurable logic block tiles and the first side of the semiconductor die, and wherein there is no input/output block tile disposed between the column of configurable logic block tiles and the second side of the semiconductor die.
- 13. (Withdrawn) The integrated circuit of Claim 8, wherein each of the input/output block tiles is coupled by a conductor to an associated bond bump, and wherein circuitry of the input/output block tile can be configured to use the bond bump to receive a signal onto the integrated circuit via the input/output block tile.
- 14. (Withdrawn) The integrated circuit of Claim 8, wherein the semiconductor die has a first side, a second side parallel to the first side, a third side, and a fourth side parallel to the third side, and wherein at least one of the columns is a column of input/output block tiles, the column of input/output block tiles extending from the first side to the second side such that an input/output block tile is disposed adjacent the first side and such that a second input/output block tile is disposed adjacent the second side.

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- 15. (Withdrawn) The integrated circuit of Claim 14, wherein all the input/output block tiles of the column of input/output block tiles are identical tiles.
- 16. (Withdrawn) The integrated circuit of Claim 8, wherein one of the columns includes at least four different types of tiles.
- 17. (Withdrawn) The integrated circuit of Claim 8, wherein a column of the plurality of columns includes a plurality of clock distribution tiles.
- 18. (Withdrawn) The integrated circuit of Claim 8, wherein over ninety-five percent of the die area of each of the columns is occupied by a single type of tile.
- 19. (Withdrawn) The integrated circuit of Claim 18, wherein in addition to the single type of tile each of the columns also includes a plurality of clock distribution tiles.
- 20. (Withdrawn) The integrated circuit of Claim 8, wherein substantially all the input/output block tiles are laid out to have either a first orientation or a second orientation, where the second orientation is a mirror image of the first orientation.
 - 21. (Original) A method, comprising:

providing a plurality of configurable logic blocks in a column, the column extending from a first side of an integrated circuit die to a second side of the integrated circuit die.

22. (Original) The method of Claim 21, further comprising: providing a first input/output block on a first side of the column; and providing a second input/output block on a second side of the column.

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- 23. (Original) The method of Claim 22, wherein there is no input/output block disposed between the column of configurable logic blocks and the first side of the integrated circuit die, and wherein there is no input/output block disposed between the column of configurable logic blocks and the second side of the integrated circuit die.
- 24. (Original) The method of Claim 21, wherein the column includes the plurality of configurable logic blocks as well as a plurality of clock distribution tiles.
- 25. (Original) The method of Claim 21, wherein over ninety-five percent of the die area of the column is occupied by configurable logic blocks.
 - 26. (Original) An integrated circuit, comprising:

a column of tiles including input/output block tiles, wherein the column of tiles occupies a die area, and wherein over ninety-five percent of the die area of the column is occupied by input/output block tiles;

a first configurable logic block tile disposed on a first side of the column; and a second configurable logic block tile disposed on a second side of the column opposite the first side.

- 27. (Original) The integrated circuit of Claim 26, wherein each of the input/output block tiles in the column has an identical layout.
- 28. (Original) The integrated circuit of Claim 26, wherein the integrated circuit is a field programmable gate array.
- 29. (Original) The integrated circuit of Claim 26, wherein the integrated circuit is disposed on a semiconductor die, the semiconductor die having a first side, a second side opposite the first side, a third side, and a fourth side opposite the third side, and wherein the column of tiles extends from the first side and to the second side, a first input/output block tile of the column being disposed adjacent the first side of the die, a second input/output block tile of the column being disposed adjacent the

second side of the die.

30. (Original) An integrated circuit comprising:

a plurality of configurable logic block tiles; and

a plurality of input/output block tiles disposed in columns, each of the columns extending in a first direction, wherein no two input/output block tiles of the integrated circuit are disposed adjacent to one another to form a row that extends in a second direction perpendicular to the first direction.

- 31. (Original) The integrated circuit of Claim 30, wherein the integrated circuit comprises at least three columns of input/output block tiles.
- 32. (Original) An integrated circuit consisting essentially of tiles, the integrated circuit comprising:

a input/output block tile having four sides, wherein the input/output block tile is bounded on each of its four sides by another tile.

33. (Withdrawn) An integrated circuit comprising:

a plurality of input/output block tiles disposed in a column; and a plurality of bond bumps, each of the bond bumps being connected to one of the input/output block tiles in a one-to-one relation, wherein some of the bond bumps are disposed outside the column to a first side of the column, and wherein other of the bond bumps are disposed outside the column to a second side of the column opposite the first side.

34. (Withdrawn) The integrated circuit of Claim 33, further comprising: a second plurality of tiles that are not input/output block tiles, wherein the plurality of bond bumps are disposed over the second plurality of tiles.